

# Work Order ID 63182

October 22, 2010 2:35:50 PM

Page 1

Item ID: DSI 9379-013

Accept

Revision ID:

Item Name: Cargo Mirror Upgrade

Start Date: 10/22/10 Start Qty: 10.00

Required Date: 10/25/10 Req'd Qty: 10.00

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

DSI 9379

C

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy DSI 9379 and create labels per PPP DSI 9379-011 CHG001

8/10/10/25

105

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

10/10/22 (signature)

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

8/10/10/25

(signature)

# Work Order ID 63182

October 22, 2010 2:35:51 PM



Page 2

Item ID: DSI 9379-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Cargo Mirror Upgrade

Start Date: 10/22/10 Start Qty: 10.00



Cust Item ID:

Required Date: 10/25/10 Req'd Qty: 10.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

120



Packaging

LCC 20

0.00

~~1A~~

10/10/25

SL

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP DSI 9379-011

130



QC21- Final Inspection - Work Order Release

0.00

QC

Memo

0.00

Quality Control

10/10/25  
MF  
10-10-25

# Picklist Print

October 22, 2010 2:35:49 PM

Work Order ID: 63182

Parent Item: DSI 9379-013

Parent Item Name: Cargo Mirror Upgrade

Page 1

2

Start Date: 10/22/10

Required Date: 10/25/10

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP rev A 10.02.16 new issue EC verified by:DD

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

AN4-5A

Purchased

No

100

Each

250.0000

2

20

Bolt

Location

Loc Qty

Loc Code

ST356

250

115016

100

115767

50

115936

100

AN960JD416

NAS1149D0463J

Purchased

No

100

Each

24.0000

4

40

Washer

Location

Loc Qty

Loc Code

ST300

24

113288

24

D4070-041

Manufactured

No

100

Each

50.0000

2

20

Clamp

Location

Loc Qty

Loc Code

ST460

50

56381

7

62689

43

73

10/10/22 S

20

115622 10/10/22 S

10/10/22 S 20

# Picklist Print

October 22, 2010 2:35:49 PM

Page 2

Work Order ID: 63182

Parent Item: DSI 9379-013

Parent Item Name: Cargo Mirror Upgrade



Start Date: 10/22/10

Required Date: 10/25/10

Start Qty: 10.00

Required Qty: 10.00

MS210421.4

Purchased

No

100

Each

3,209.000

2

20



Nut



10/10/2010 10:20

## Location

## Loc Qty

## Loc Code

ST300

3209

113422

68

114523

8

114718

16

114784

32

115108

85

115589

1900

115621

1100

20

October 22, 2010 2:35:49 PM

Shop Packet Print

Page 2

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

REFERENCE ONLY

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

This service instruction details the D350-561-141/-143 kits at CHANGE 003 or later, which use D4070-041 Clamps (replaces MS21919WDG7 clamps). For -141/-143 kits at earlier change numbers, the DSI-9379-013 Upgrade kit is available to replace the mil-spec clamps with more robust D4070-041 Clamps.

## 1.0 PARTS LIST

| Qty<br>-141 | Qty<br>-143 | Qty<br>-045 | Qty<br>-011 | Qty<br>-013 | Part Number  | Description                                |
|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X           | 1           |             |             |             | D350-561-141 | SINGLE MIRROR INSTALLATION (REPLACES -041) |
|             | X           |             |             |             | D350-561-143 | DUAL MIRROR INSTALLATION (REPLACES -043)   |
|             | 1           | X           |             |             | D350-561-045 | MIRROR KIT                                 |
|             |             |             | X           |             | DSI-9379-011 | UPGRADE KIT                                |
|             |             |             |             | X           | DSI-9379-013 | UPGRADE KIT                                |
| 1           |             | 1           |             |             | D2011-101    | MIRROR                                     |
| 1           |             |             |             |             | D2012-105    | ARM  |
| 1           |             |             |             |             | D2012-107    | CLEVIS                                     |
| 1           |             |             |             |             | D2012-111    | BRACKET                                    |
|             |             | 2           |             |             | D2012-113    | CLAMP                                      |
| 1           |             |             |             |             | D2012-115    | BRACKET                                    |
| 2           |             |             |             |             | D2022-101    | SPACER                                     |
| 1*          |             | 1*          |             |             | D3014-1      | LOCKNUT                                    |
| 1           |             |             | 1           |             | D3629-1      | BRACKET                                    |
| 1           |             |             | 1           |             | D3635-1      | GASKET                                     |
| 2           |             |             | 2           |             | D3635-3      | GASKET                                     |
| 1           |             |             | 1           |             | D3646-1      | ARM  |
| 1           |             |             | 1           |             | D3646-3      | ARM  |
| 2           |             |             | 2           | 2           | D4070-041    | CLAMP                                      |
| 3           |             |             | 3           |             | AN3-4A       | BOLT                                       |
| 1           |             |             |             |             | AN3-6A       | BOLT                                       |
| 3           |             |             | 2           | 2           | AN4-5A       | BOLT                                       |
| 1           |             |             |             |             | AN4-10A      | BOLT                                       |
| 8           |             |             | 6           |             | AN960JD10    | WASHER                                     |
| 8           |             |             | 4           | 4           | AN960JD416   | WASHER                                     |
| 1*          |             | 1*          |             |             | AN960JD416L  | WASHER                                     |
| 4           |             |             | 3           |             | MS21042L3    | NUT (OR MS21042-3)                         |
| 4           |             |             | 2           | 2           | MS21042L4    | NUT (OR MS21042-4)                         |

\*INCLUDED AS PART OF D2011-101 MIRROR

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 10.02.12  
CERT. NO.: SH91-20  
ISSUE NO.: 2

|            |                             |  |              |      |
|------------|-----------------------------|--|--------------|------|
| C          | D4070-041 WAS MS21919WDG7   | CP   | 10.02.12     |      |
| B          | MS21919WDG7 WAS MS21929WDG7 | DC   | 07.11.26     |      |
| A          | NEW ISSUE                   | MB   | 07.07.10     |      |
| REV.       |                             | DESCRIPTION  | BY           | DATE |
| DESIGN     |                             | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA   |              |      |
| DRAWN      |                             |  |              |      |
| CHECKED    |                             | DRAWING NO.  | REV. C       |      |
| MFG. APPR. | N/A                         | DSI 9379   | SHEET 1 OF 5 |      |
| APPROVED   |                             | TITLE  | SCALE        |      |
| DE APPR.   |                             | CARGO MIRROR UPDRAGE KIT   | NTS          |      |
| DATE       | 10.02.12                    | COPYRIGHT © 2007 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |      |